

Name of Document      Claims

1. A route guide data creation device that acquires travel data transmitted from a vehicle that travels on a road according to a predetermined travel route and travel time, and creates route guide data based on the acquired predetermined travel data, comprising:

travel data acquisition means that acquires said travel data over a predetermined period of time;

travel data processing means that receives data formatted from said travel data into a predetermined input format, calculates arrival time and departure time at/from each stop for each travel route and for each vehicle ID, and outputs the arrival time and departure time in a predetermined output format; and

a route guide database that stores route guide data including the departure time and the arrival time of each stop and each vehicle outputted from said travel data processing means.

2. A route guide data creation device according to claim 1, wherein the route guide data creation device acquires said travel data about the first vehicle through the last vehicle of each travel route.

3. A route guide data creation device according to claim 1 or 2, wherein said input format includes a vehicle ID, a route code, a next stop code, arrival time at a previous stop, and departure time from the previous stop.

4. A route guide data creation device according to claim 1 or 2, wherein said output format includes a vehicle ID, a route code, a departing stop code, arrival time, arriving stop code, and departure time.

5. A route guide data creation device according to claim 1 or 2, wherein said route guide data is classified based on conditions at the time when the travel data is stored in said route guide database.

6. A route guide data creation device according to claim 5, wherein the conditions at the time when said travel data is acquired include weather and/or day, and date.

7. A route guide data creation device according to claim 1 or 2, wherein said travel data processing means sorts the acquired travel data into order of departure time after sorting the acquired travel data into an order of vehicle ID and order of route code, and calculates departure time and arrival time for each section between stops.

8. A route guide data creation method for acquiring travel data transmitted from a vehicle that travels on a road according to a predetermined travel route and travel time, and creating route guide data based on the acquired predetermined travel data, comprising:

a step for acquiring travel data over a predetermined period of time, the travel data being transmitted from a vehicle that travels on a road;

a step for inputting data formatted from the acquired travel data to a predetermined input

format into operation processing means;  
a step for calculating arrival time and departure time at/from each stop for each vehicle ID from said inputted travel data;  
a step for outputting the arrival time and departure time at/from each stop, which are calculated for each vehicle ID, in a predetermined output format; and  
a step for storing the route guide data, including the departure time and the arrival time of each vehicle from/at each stop, outputted from said travel data processing means in a route guide database.

9. A route guide data creation method according to claim 8, wherein the step for acquiring said travel data includes a step for acquiring said travel data on a first vehicle through a last vehicle for each travel route.

10. A route guide data creation method according to claim 8 or 9, wherein said input format includes a vehicle ID, a route code, a next stop code, arrival time at a previous stop, and departure time from the previous stop.

11. A route guide data creation method according to claim 8 or 9, wherein said output format includes a vehicle ID, a route code, a departing stop code, departure time, arriving stop code, and arrival time.

12. A route guide data creation method according to claim 8 or 9, wherein the step for storing to said route guide database includes a step for classifying said route guide data based on conditions at the time when the travel data is acquired and stores in the route guide database.

13. A route guide data creation method according to claim 12, wherein the conditions at the time when said travel data is acquired include weather and/or day, and date.

14. A route guide data creation method according to claim 8 or 9, wherein the step for calculating arrival time and departure time at/from each stop for each vehicle ID from said inputted travel data includes a step for sorting the acquired travel data into order of departure time after sorting the acquired travel data into order of vehicle ID and order of route code, and calculating departure time and arrival time for each section between stops.

15. A route guide distribution device, comprising:  
a route guide database in which route guide data on a vehicle that travels on a road according to a predetermined travel route and travel time is stored; and  
distribution means for distributing a route guide in response to a route guide request from a mobile terminal based on the route guide data stored in said route guide database, said route guide database storing arrival time and departure time at/from each stop for each vehicle ID calculated for each travel route based on travel data acquired from a vehicle that travels on a road over a predetermined period of time as route guide data.

16. A route guide distribution device according to claim 15, wherein said route guide database stores arrival time and departure time at/from each stop for each vehicle ID calculated for each travel route based on travel data acquired from each vehicle from a first vehicle to a last vehicle that travel on a road as route guide data.
17. A route guide distribution device according to claim 16, wherein said route guide data is classified based on conditions at the time when travel data is acquired and stored in said route guide database.
18. A route guide distribution device according to claim 17, wherein the conditions at the time when said travel data is acquired include weather and/or day, and date.
19. A route guide distribution device according to claim 18, wherein said distribution means distributes route guide created by acquiring route guide data corresponding to a condition at the time when route guide request is issued by a mobile terminal from said route guide database.